

**Flood Control Project Maintenance
Levee Inspections**

Fall 2009 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0349	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 0349 Sutter Island	U	12.49				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	1.52		1.52	12.17%		
Trim / Thin Trees	0.99		0.99	7.93%		
Encroachments	0.15	0.02	0.23	1.84%	0.17	0.21
USACE Erosion Survey	0.03	0.11	0.47	3.76%		
<i>LMA Totals:</i>	2.69	0.13	3.21	25.70%	0.17	0.21

Unit No. 01 Sacramento River	Overall Unit Rating	Total Unit Miles				
	U	1.59				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.03		0.03	1.89%		
Trim / Thin Trees	0.91		0.91	57.23%		
Encroachments					0.05	0.03
<i>Unit Totals:</i>	0.94	0.00	0.94	59.12%	0.05	0.03

Unit No. 02 Steamboat Slough	Overall Unit Rating	Total Unit Miles				
	U	4.35				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	1.49		1.49	34.25%		
Trim / Thin Trees	0.08		0.08	1.84%		
Encroachments	0.06	0.02	0.14	3.22%	0.12	0.06
USACE Erosion Survey	0.03		0.03	0.69%		
<i>Unit Totals:</i>	1.66	0.02	1.74	40.00%	0.12	0.06

Unit No. 03 Sutter Slough	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
	M *	6.55				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Encroachments	0.09		0.09	1.37%		0.12
USACE Erosion Survey		0.11	0.44	6.72%		
<i>Unit Totals:</i>	0.09	0.11	0.53	8.09% *	0.00	0.12

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2009 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	1.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/12/2009		9/24/2009	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Room LL-30
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0349 Sutter Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River						Right	1.59	11/20/2009 11/20/2009	Herman Phillips	
LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.03	Earthen Levee	Encroachments	WS	CO	Landscaping	38.327135 ° -121.577118 °	38.326607 ° -121.577132 °	1
2	0.06	0.82	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.326157 ° -121.577117 °	38.315424 ° -121.579110 °	20
3	0.48	0.48	Earthen Levee	Encroachments	LS	C	Tank	38.320282 ° -121.578688 °	38.320277 ° -121.578683 °	7
4	0.51	0.66	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.319928 ° -121.578782 °	38.317708 ° -121.579072 °	8
5	0.74	0.74	Earthen Levee	Encroachments	LS	C	Landscaping	38.316670 ° -121.579052 °	38.316670 ° -121.579052 °	12
6	1.44	1.48	Earthen Levee	Encroachments	LS	PO	Landscaping	38.307117 ° -121.575524 °	38.306600 ° -121.575210 °	21
7	1.45	1.45	Earthen Levee	Encroachments	LS	PO	Landscaping	38.307075 ° -121.575485 °	38.307073 ° -121.575487 °	17
8	1.56	1.59	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.305580 ° -121.574757 °	38.305210 ° -121.574803 °	19

*** Location**

LS : Land Side
WS : Water Side
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**** Rating**

A : Acceptable
M : Minimally Acceptable
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CO : Completely Obstructing
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C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 02 Steamboat Slough			Right	4.35
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/12/2009		9/24/2009	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0349 Sutter Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough						Right	4.35	11/20/2009 11/20/2009	Herman Phillips

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.03	0.07	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.304935 ° -121.575325 °	38.304798 ° -121.575920 °	2
2	0.04	0.06	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.304873 ° -121.575517 °	38.304873 ° -121.575815 °	1
3	0.10	0.11	Earthen Levee	Encroachments	LS	M	Equipment	38.589334 ° -121.505000 °	38.891916 ° -121.504970 °	967
4	0.12	0.17	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.304480 ° -121.576747 °	38.304002 ° -121.577460 °	65
5	0.14	0.18	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	38.588764 ° -121.594881 °	38.588187 ° -121.504853 °	968
6	0.16	0.84	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.304042 ° -121.577253 °	38.295734 ° -121.582838 °	969
7	0.21	0.25	Earthen Levee	Encroachments	LS	PO	Landscaping	38.303673 ° -121.578065 °	38.303303 ° -121.578695 °	7
8	0.24	0.27	Earthen Levee	Encroachments	LS	PO	Fences	38.303390 ° -121.578577 °	38.303157 ° -121.578962 °	8
9	0.38	0.38	Supplemental	USACE Erosion Survey	LS	M	Inspector Comments: tree hazards	38.302317 ° -121.530008 °	38.301732 ° -121.579627 °	966
10	0.82	0.82	Earthen Levee	Encroachments	LS	M	Equipment	38.296011 ° -121.582736 °	38.296011 ° -121.582736 °	971
11	0.82	0.83	Earthen Levee	Encroachments	LS	M	Material	38.296005 ° -121.582838 °	38.295862 ° -121.582900 °	67
12	0.84	0.90	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.295753 ° -121.582838 °	38.294985 ° -121.583147 °	12
13	0.92	1.32	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.294668 ° -121.583362 °	38.289050 ° -121.584140 °	70
14	0.93	0.95	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.294472 ° -121.583362 °	38.294242 ° -121.583398 °	71
15	1.08	1.31	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.292413 ° -121.583823 °	38.289147 ° -121.583962 °	17
16	1.33	1.34	Earthen Levee	Encroachments	LS	PO	Landscaping	38.288913 ° -121.583933 °	38.288745 ° -121.583938 °	18
17	1.41	1.61	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	38.287717 ° -121.584145 °	38.285738 ° -121.586830 °	73
18	1.63	1.63	Earthen Levee	Encroachments	LS	M	Tree or limb	38.569581 ° -121.515627 °	38.569581 ° -121.515627 °	972

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0349 Sutter Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough							Right	4.35	11/20/2009 11/20/2009	Herman Phillips
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
19	1.80	1.83	Earthen Levee	Encroachments	LS	CO	Landscaping	38.283698 ° -121.589143 °	38.283400 ° -121.589273 °	25
20	2.13	2.15	Supplemental	USACE Erosion Survey	LS	M	Inspector Comments: tree hazards	38.278985 ° -121.589528 °	38.278565 ° -121.589767 °	963
21	2.41	2.44	Earthen Levee	Encroachments	LS	PO	Landscaping	38.275492 ° -121.591268 °	38.275092 ° -121.590910 °	31
22	2.70	2.72	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.272228 ° -121.589695 °	38.272017 ° -121.589818 °	34
23	2.77	3.02	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.271213 ° -121.589877 °	38.267830 ° -121.588897 °	36
24	3.07	3.10	Earthen Levee	Encroachments	LS	CO	Landscaping	38.267265 ° -121.588470 °	38.266747 ° -121.588355 °	38
25	3.11	3.27	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.266665 ° -121.588437 °	38.264297 ° -121.588315 °	39
26	3.16	3.18	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.265783 ° -121.588377 °	38.265495 ° -121.588376 °	973
27	3.41	3.47	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	38.262669 ° -121.589830 °	38.262699 ° -121.590920 °	974
28	3.64	3.72	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	38.262322 ° -121.593935 °	38.261483 ° -121.594867 °	43
29	3.73	4.35	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.261432 ° -121.594890 °	38.254770 ° -121.600022 °	44
30	3.73	3.74	Earthen Levee	Encroachments	WS	PO	Landscaping	38.261403 ° -121.594932 °	38.261330 ° -121.595022 °	45
31	3.74	3.75	Earthen Levee	Encroachments	LS	C	Pipe	38.261297 ° -121.595008 °	38.261190 ° -121.595107 °	46
32	3.75	3.77	Earthen Levee	Encroachments	LS	U	Equipment	38.261242 ° -121.595173 °	38.260868 ° -121.595267 °	47
33	3.75	3.75	Earthen Levee	Encroachments	LS	M	Tree or limb	38.261070 ° -121.595060 °	38.261070 ° -121.595060 °	975
34	3.78	3.78	Earthen Levee	Encroachments	LS	M	Tree or limb	38.260823 ° -121.595253 °	38.260705 ° -121.595275 °	48
35	4.29	4.35	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.254846 ° -121.599030 °	38.254796 ° -121.600093 °	976
36	4.34	4.35	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	38.254760 ° -121.599925 °	38.254880 ° -121.600070 °	81

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2009 Levee Inspection Results

Reclamation District No. 0349 Sutter Island

Waterway			Bank	Unit Miles
Unit No. 03 Sutter Slough			Left	6.55

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/12/2009		9/24/2009	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By				

Check one:

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2009

Reclamation District No. 0349 Sutter Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 03 Sutter Slough						Left	6.55	12/01/2009 12/01/2009	Herman Phillips	
LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.79	0.85	Earthen Levee	Encroachments	LS	CO	Landscaping	38.265952 ° -121.601692 °	38.266842 ° -121.602033 °	4
2	0.97	0.97	Earthen Levee	Encroachments	WS	M	Tree or limb	38.268393 ° -121.602911 °	38.268393 ° -121.602911 °	971
3	1.11	1.12	Earthen Levee	Encroachments	LS	M	Tree or limb	38.270247 ° -121.603575 °	38.270477 ° -121.603527 °	18
4	1.70	1.76	Earthen Levee	Encroachments	LS	CO	Landscaping	38.278355 ° -121.600330 °	38.279095 ° -121.600273 °	14
5	4.60	4.71	Supplemental Survey	USACE Erosion	LS	U	Inspector Comments: tree hazards, slumping	38.315408 ° -121.591517 °	38.313988 ° -121.592222 °	970
6	5.30	6.42	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	38.322945 ° -121.588602 °	38.328300 ° -121.578780 °	27
7	5.44	5.53	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	38.323783 ° -121.586260 °	38.324857 ° -121.585360 °	28
8	6.06	6.11	Earthen Levee	Encroachments	LS	M	Tree or limb Inspector Comments: This brush pile needs to be burned or not allowed to remain on the levee section.	38.331563 ° -121.583342 °	38.331460 ° -121.582448 °	973 Y
9	6.39	6.41	Earthen Levee	Encroachments	WS	M	Firewood Inspector Comments: The farmer has declared this section of levee as his burn pile. If he plans to burn then this should be burned or removed from the levee, rodents will start to dig holes under the brush piles.	38.328762 ° -121.578890 °	38.328383 ° -121.578408 °	972 Y

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.55	12/01/2009 12/01/2009	Herman Phillips

Levee Mile Report Line	8
Start Levee Mile	6.06
End Levee Mile	6.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Rather large brush pile on the land ward slope and shoulder.

phillips_20091201_16.jpg



Levee Mile Report Line	8
Start Levee Mile	6.06
End Levee Mile	6.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

view from down stream.

phillips_20091201_17.jpg



Levee Mile Report Line	8
Start Levee Mile	6.06
End Levee Mile	6.11
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Down stream at end of pile landward.

phillips_20091201_18.jpg



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.55	12/01/2009 12/01/2009	Herman Phillips

Levee Mile Report Line	9
Start Levee Mile	6.39
End Levee Mile	6.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Hugh brush pile on the waterward shoulder.

phillips_20091201_14.jpg



Levee Mile Report Line	9
Start Levee Mile	6.39
End Levee Mile	6.41
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of brush pile waterward shoulder and slope.

phillips_20091201_15.jpg



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